U.S. Department of Energy
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# Office of National Transportation Security

Presented to:
**Transportation External Coordination Working Group Meeting**

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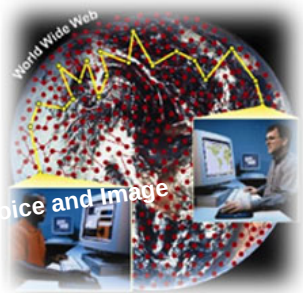
# OCRWM Office of National Transportation Security Session

- **ONT envisions four fundamental functional elements to a successful security program**
  - **Information Security**
  - **Personnel Security**
  - **Operations Security**
  - **Physical Security**
- **Since shipments will not commence until 2010, we have an excellent opportunity to collaboratively build an effective transportation security system that will meet the need of the DOE as well as stakeholders.**

# Elements of a Security System




**Information Security**

**Hardware**

**Secure Transport**

**People**

# DOE/RW Activities Supporting the Four Transportation Safeguards and Security Functional Elements

- **Information Security**
  - **Classification Guide**
  - **Transportation Design Basis Threat**
  - **Security Concept of Operations**
  - **Security Plan**
  - **Communications Hardware Evaluation for SECOM**

# Functional Elements

- **Personnel Security**
  - **Leveraging DOE/OST Capabilities to Hire and Train Shipment Escorts**
  - **Potential for Use of Federal Agents as Shipment Escorts**
- **Hardware**
  - **Vulnerability Analyses on Transportation Packaging**
  - **Risk-Based Study to Assess Risk from Various Terrorist Attacks on a Range of Packagings**
  - **SNF Experiments to Assess Fuel Response to Specific Terrorist Attack Modes**
  - **Studies that Link Aspects of Design Related Safety to Support Protection from Threat Events**

# Functional Elements

- **Operations**
  - **Leveraging DOE/OST Operational Experience**
  - **Integrating Transportation Security Needs with Other Functional Operations, such as Fleet Maintenance**
  - **Functional Specification for Rail Escort Car**
  - **Evaluating Security Advantage/Disadvantages Associated with Use of Dedicated Trains**
  - **Evaluating Routing Criteria Relative to Security Requirements**
  - **Developing a Transportation Logistics Model that Will Incorporate a Security Operations Component**
  - **Developing Cask Sensors that Will Help Detect/Delay Potential Attacks**

# Functional Elements

- **Can States and Tribes establish a communication system (hardware, software, facilities, and personnel) that satisfies OPSEC and COMSEC principles? Issued November 2003--fulfilled a commitment by Secretary Abraham to issue a plan in 2003**
- **The transportation mission--to develop a safe, secure and efficient transportation system that is operated in a way that the public can rely on it without question--will be accomplished through three goals:**
  - **Conduct an open and collaborative planning process with interested parties**
  - **Develop a safe and secure transportation system and related infrastructure that is based on that planning**
  - **Complete transportation system validation in time to begin operations in 2010**

# Session Focus: Information Security

- **An integrated set of programs for the protection and control of sensitive and classified information using:**
  - **Operations Security (OPSEC**
  - **Classified Matter Protection and Control**
  - **Technical Surveillance Countermeasures**
- **Information Security is Achieved in Conjunction with:**
  - **Physical Security**
  - **Personnel Security**
  - **Communications Security**
  - **Cyber Security**

# Session Focus: Information Security

- **Security Concept of Operations that will serve as a blueprint, in a broad sense, for transport security. Draft 9/04**
- **Security Plan that will define the functions, activities, and protocols required to secure shipments.**
  - **Annotated Outline 10/04**
  - **Draft 10/06**

# Session Focus: Information Security

- **Panel:**
  - **Summarize Pre and Post 9/11 security effects on communications**
  - **Describe interactions between DOE and stakeholders re information security**
  - **Provide an international perspective on information securit**
- **Session Objectives:**
  - **Solicit input from stakeholders on questions to be answered, issues to be addressed, work to be don**
  - **Form a Security Topic Group to provide input and feedback on issues related to transportation security**

# Questions for a Potential Security Topic Group

**How can we effectively satisfy basic principles of a sound security program while satisfying stakeholder needs? For example:**

- **Minimize time during transport**
- **Secure shipments while stopped**
- **Avoid regular, predictable movements**
- **Assure trustworthiness of involved individuals**
- **Limit advance knowledge**

- **How can a seamless security program be established between the elements of the transport system and the state/tribal stakeholders to address the need for confidentiality, classification of information and clearance of personnel?**

# Questions for a Potential Security Topic Group (Continued)

- Can States and Tribes establish a communication system (hardware, software, facilities, and personnel) that satisfies OPSEC and COMSEC principles?
- What OPSEC and COMSEC principles should apply to the RW shipments?
- What level of security clearance will be needed for both the RW transportation personnel and involved/designated state and tribal personnel?
- How can an efficient and timely personnel clearance procedure be implemented for the RW transportation system?

# Questions for a Potential Security Topic Group (Continued)

- For each shipment approaching a state of tribal jurisdiction, what specific knowledge/information is needed by the states/tribes and how much in advance of arrival of the shipment is it needed?
- In facilitating transport across multiple jurisdictions, while minimizing transit time, stops and delays:
  - o Can states/tribes agree on shipment inspection procedures, locations and frequencies so a standardized approach can be achieved? How would these vary by transport mode?
  - o Can states/tribes agree to the use of certified/qualified Federal escorts in lieu of state/tribal escorts?

# Questions for a Potential Security Topic Group (Continued)

- **What involvement can and should stakeholders have in the development of an RW Transportation Classification Guide?**
- **What involvement can and should stakeholders have in the development of a Security Concept of Operations?**
- **What, if any, security auditing program will be needed to ensure OPSEC/COMSEC procedures are being followed at all levels (RW, transportation operations personnel, states, tribes)?**

# Questions for a Potential Security Topic Group (Continued)

- As personnel change in the RW and stakeholder organizations, what steps can be taken to ensure seamless communications? And who should be responsible for notifications of such changes to an authorized point of contact (at each level)?
- Can use of dedicated rail service enhance security for the rail mode of transportation, and if so, what constraints on the service could be removed to further enhance security?
- From and information security standpoint, what works well in the stakeholder community and what could be improved?